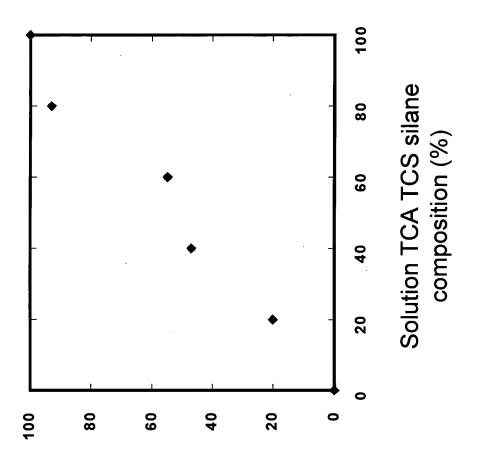
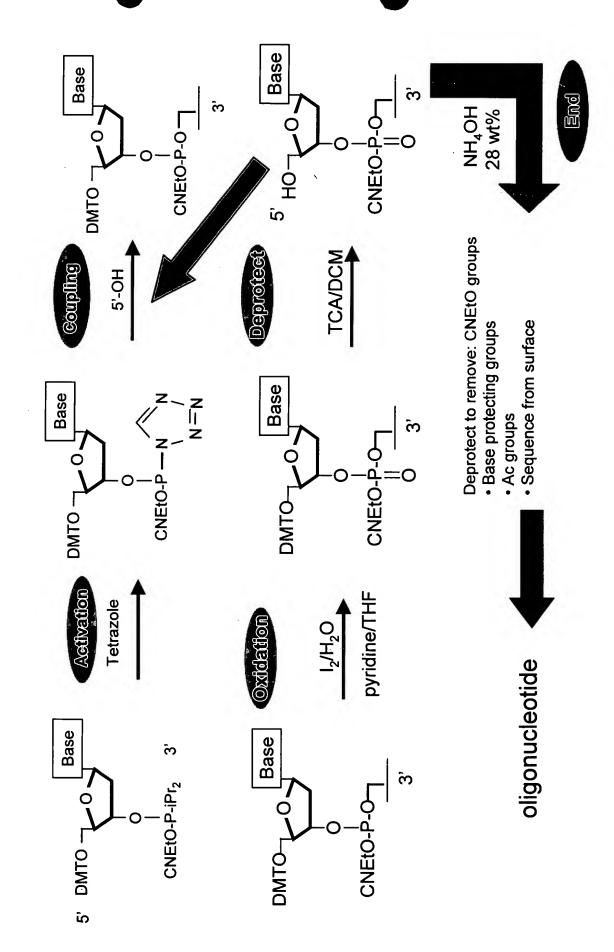
Surface TCA TCS silane composition (%)





\* CNEtO=cyanoethanol, iPr=isopropyl, DMT=dimethyl trityl, Ac=acetyl, TCA=trichloroacetic acid, DCM=CH2Cl2

Figure 2

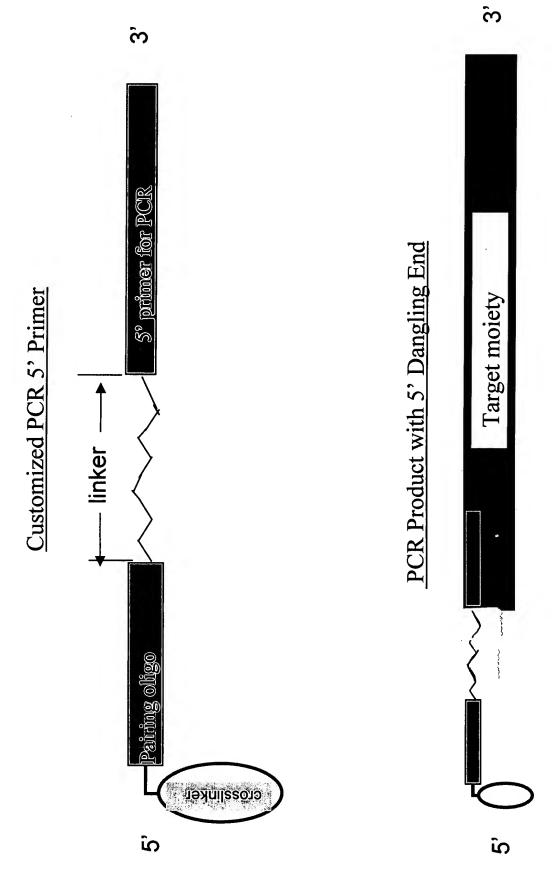


Figure 3

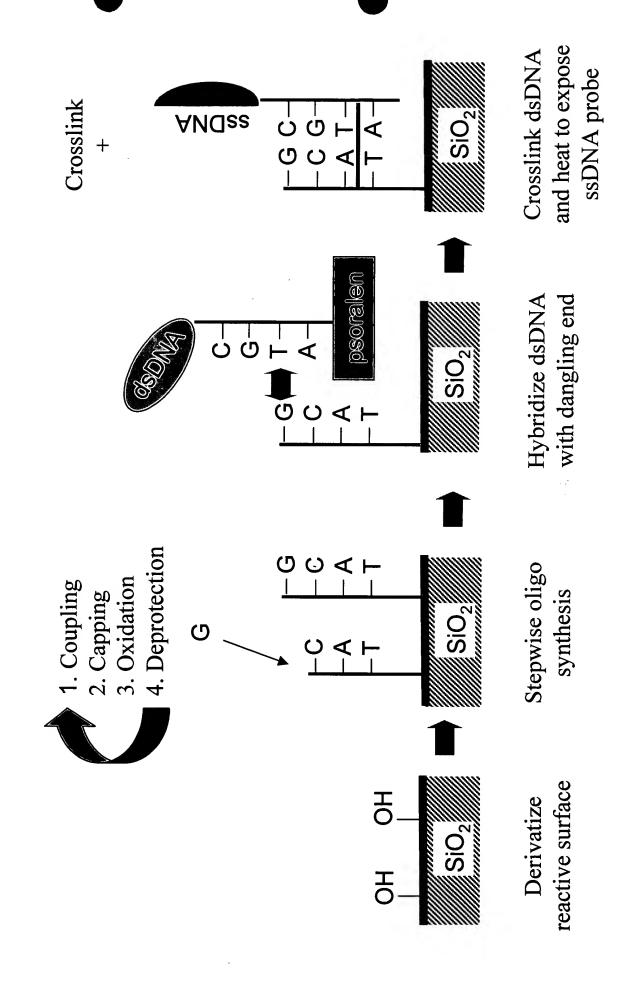
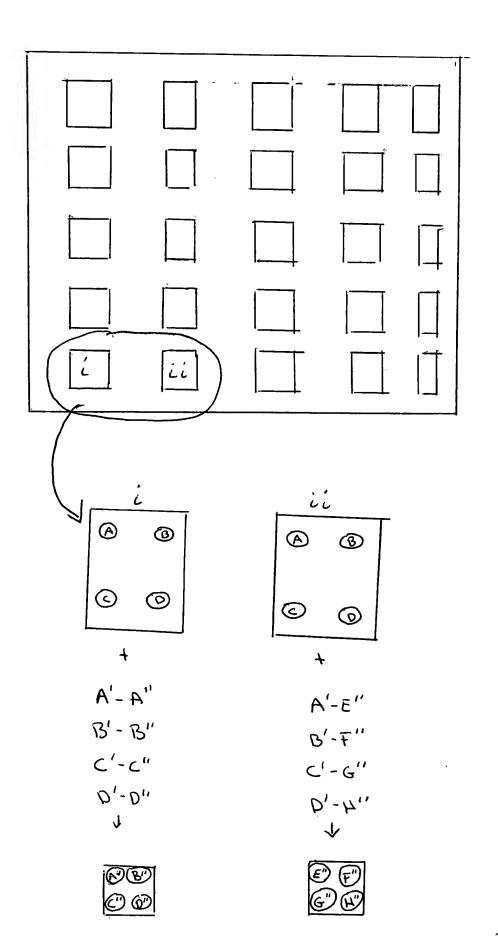


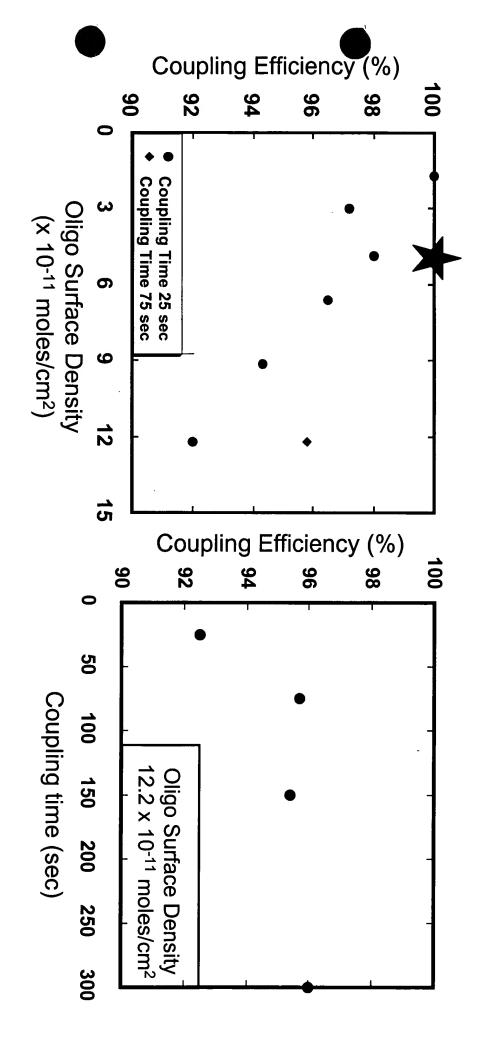
Figure L1

A

B



Figur 5



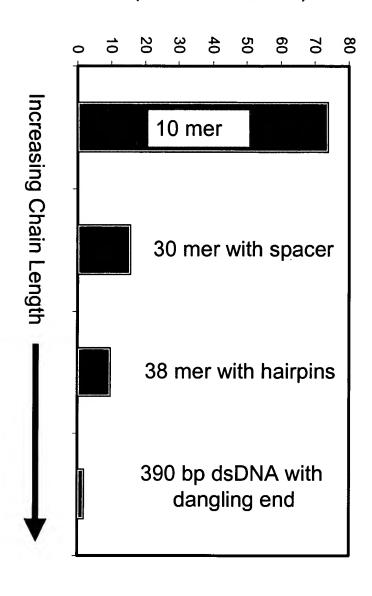


Immersion Time 24 hrs 4hrs \* Oligo solution concentration =  $0.5 \, \mu M$ Hybridization temperature = 4°C 1 M NaCl 1M TMACI OH silane oligo (40%) 0.5 M NaCl 0.1 M NaCl 6 Hybridized DNA Surface Coverage (x10-12 moles/cm²)

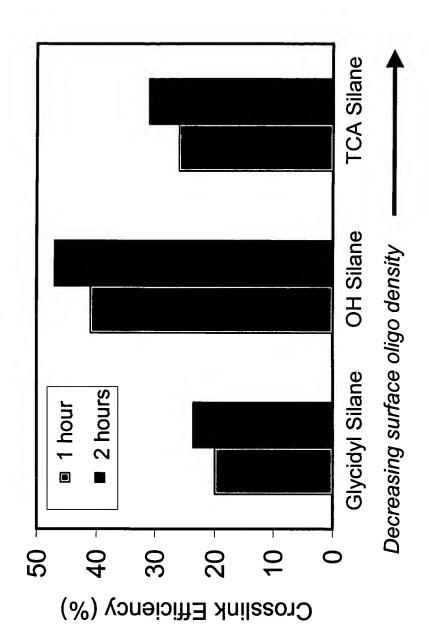
Salt Species and Concentration

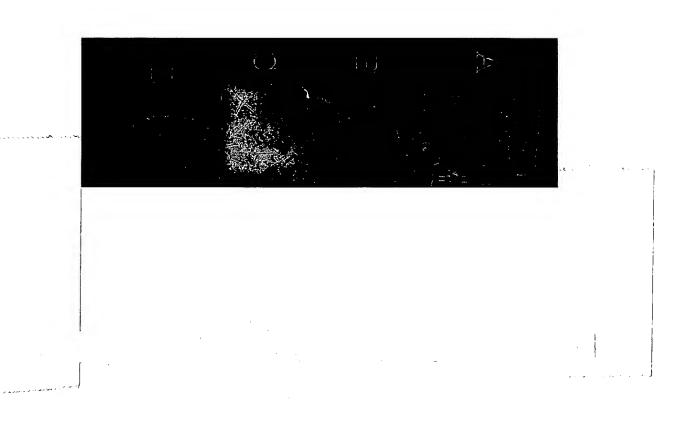
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## Hybridization Yield (x 10<sup>-13</sup>moles/cm<sup>2</sup>)



Time &





Trave 10